

## **Amendments to the Specification:**

On page 1, prior to the first paragraph which begins on line 1, please replace the title with the following new title:

### **Introduction**

#### **FIELD OF THE INVENTION**

On page 1, prior to the second paragraph which begins on line 6, please insert the following:

#### **BACKGROUND OF THE INVENTION**

Please insert the following two new paragraphs on page 2, immediately after line 24 and before the title "Object of the Invention":

US patent US 5,920,289 discloses a satellite antenna reflector panel, which comprises a reflector sheet and a reinforcing element. The reinforcing element comprises a honeycomb core with a front skin layer and a back skin layer, each made of a fiberglass cloth. A heater assembly comprising a resistance heater wire sandwiched between two layers of fiberglass cloth is arranged on top of skin layer. The reflector sheet is arranged on top of the heater assembly and covered by a further fiberglass cloth and a front surface made of plastic material.

An ultra lightweight membrane reflector antenna for use in outer space is disclosed in document EP 0 741 435 A. This antenna comprises a reflector membrane, which is mounted on a reinforcing element. The reflector membrane itself comprises a thin shapeable honeycomb core with two single ply membrane outer layers, which are laminated onto the reinforcing core after the latter has been formed into the required shape. This reflector membrane is mounted onto a rear reinforcing element, which comprises an outer peripheral reflector ring and a rear support frame portion.

On page 2, prior to the paragraph which begins on line 25, please replace the title with the following new title:

~~Object of the invention~~

### SUMMARY OF THE INVENTION

On page 2, prior to the paragraph which appears on line 13, please delete the following title:

~~General description of the invention~~

On page 5, please replace the title which appears on line 12 with the following new title:

~~Detailed description with respect to the figures~~

### BRIEF DESCRIPTION OF THE DRAWINGS

Please replace the paragraph which begins on page 5, after line 12 and which ends on line 18, with the following rewritten paragraph:

The present invention will be more apparent from the following description of several not limiting embodiments with reference to the attached drawings, wherein

Fig.1: is a schematic view of a section of an antenna reflector comprising several reflector panels or segments;

Fig.2: is a [[3d]] perspective view of an antenna reflector;

Fig.3: an antenna reflector panel[.];

Fig. 4: is a partial cross-sectional view illustrating the reflector sheet; and

Fig. 5: is a partial cross-sectional view illustrating the groove and heating element arrangement.

### DETAILED DESCRIPTION

Please replace the paragraph which begins on page 5, line 26 and ends on page 6, line 4, with the following rewritten paragraph:

The reflective sheet 16 (metal or carbon fiber material) is then directly adhered to the concave inside of the so machined block (Fig. 4 and 5). The adhesion process is standard practice as known in processing honeycomb products and of other-wise flat or shaped sheet, which is reinforced with appropriate (metal) profiles by adhesion process. As one example it is mentioned that these adhesion processes are used since many years and are well under control for aeronautical products like aircraft interior panels or elements of wings etc.

Please replace the paragraph which begins on page 8, line 11 and ends on line 17, with the following rewritten paragraph:

Some antennas must operate free of snow and ice and are therefore equipped with a de-icing system (Fig. 5). These systems are either made of surface heating elements that are assembled to the backside of the reflector sheet or behind the reflector panels is a free closed area with circulating hot air. In both cases the reflector panel sheet is heated directly because it is directly accessible. Honey-comb core is an excellent isolator and these approaches would isolate the back side of the reflector sheet and such de-icing would not work. The heating element(s) 24 can be situated in groove(s) 18 in the block 14.